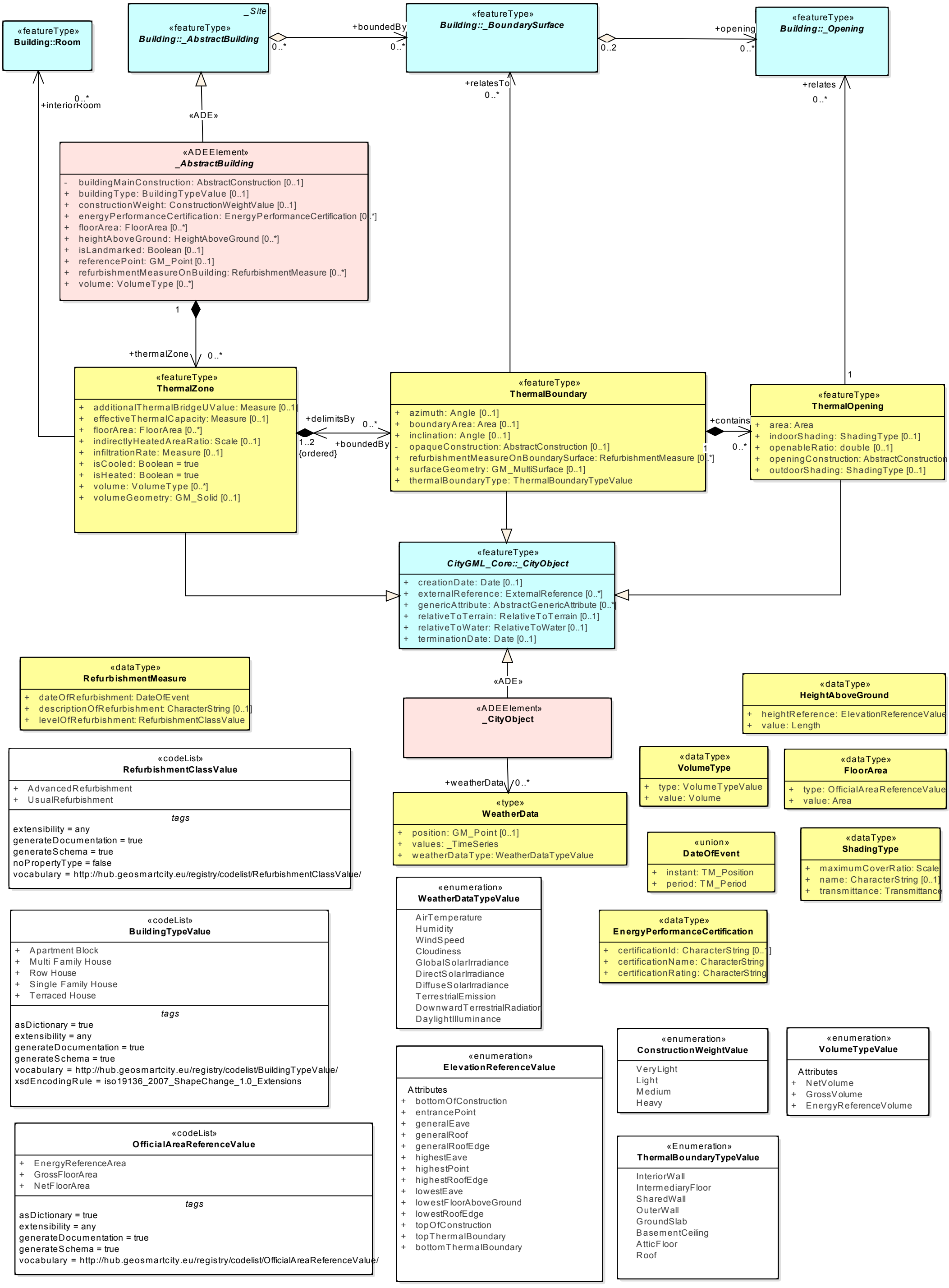
«featureType»
Building::Room
_Site
«featureType»
Building::_AbstractBuilding
+boundedBy
0..*
0..*
«featureType»
Building::_BoundarySurface
+opening
0..2
0..*
«featureType»
Building::_Opening
0..*
+interiorRoom
«ADE»
+relatesTo
0..*
+relates
0..*
«ADEElement»
_AbstractBuilding
- buildingMainConstruction: AbstractConstruction [0..1]
+ buildingType: BuildingTypeValue [0..1]
+ constructionWeight: ConstructionWeightValue [0..1]
+ energyPerformanceCertification: EnergyPerformanceCertification [0..*]
+ floorArea: FloorArea [0..*]
+ heightAboveGround: HeightAboveGround [0..*]
+ isLandmarked: Boolean [0..1]
+ referencePoint: GM_Point [0..1]
+ refurbishmentMeasureOnBuilding: RefurbishmentMeasure [0..*]
+ volume: VolumeType [0..*]
1
+thermalZone
0..*
«featureType»
ThermalZone
+ additionalThermalBridgeUValue: Measure [0..1]
+ effectiveThermalCapacity: Measure [0..1]
+ floorArea: FloorArea [0..*]
+ indirectlyHeatedAreaRatio: Scale [0..1]
+ infiltrationRate: Measure [0..1]
+ isCooled: Boolean = true
+ isHeated: Boolean = true
+ volume: VolumeType [0..*]
+ volumeGeometry: GM_Solid [0..1]
+delimitsBy
0..*
1..2
{ordered}
+boundedBy
«featureType»
ThermalBoundary
+ azimuth: Angle [0..1]
+ boundaryArea: Area [0..1]
+ inclination: Angle [0..1]
- opaqueConstruction: AbstractConstruction [0..1]
+ refurbishmentMeasureOnBoundarySurface: RefurbishmentMeasure [0..*]
+ surfaceGeometry: GM_MultiSurface [0..1]
+ thermalBoundaryType: ThermalBoundaryTypeValue
+contains
1
0..*
1
«featureType»
ThermalOpening
+ area: Area
+ indoorShading: ShadingType [0..1]
+ openableRatio: double [0..1]
+ openingConstruction: AbstractConstruction
+ outdoorShading: ShadingType [0..1]
«featureType»
CityGML_Core::_CityObject
+ creationDate: Date [0..1]
+ externalReference: ExternalReference [0..*]
+ genericAttribute: AbstractGenericAttribute [0..*]
+ relativeToTerrain: RelativeToTerrain [0..1]
+ relativeToWater: RelativeToWater [0..1]
+ terminationDate: Date [0..1]
«ADE»
«ADEElement»
_CityObject
+weatherData
0..*
«type»
WeatherData
+ position: GM_Point [0..1]
+ values: _TimeSeries
+ weatherDataType: WeatherDataTypeValue
«dataType»
RefurbishmentMeasure
+ dateOfRefurbishment: DateOfEvent
+ descriptionOfRefurbishment: CharacterString [0..1]
+ levelOfRefurbishment: RefurbishmentClassValue
«dataType»
HeightAboveGround
+ heightReference: ElevationReferenceValue
+ value: Length
«codeList»
RefurbishmentClassValue
+ AdvancedRefurbishment
+ UsualRefurbishment
tags
extensibility = any
generateDocumentation = true
generateSchema = true
noPropertyType = false
vocabulary = http://hub.geosmartcity.eu/registry/codelist/RefurbishmentClassValue/
«dataType»
VolumeType
+ type: VolumeTypeValue
+ value: Volume
«dataType»
FloorArea
+ type: OfficialAreaReferenceValue
+ value: Area
«union»
DateOfEvent
+ instant: TM_Position
+ period: TM_Period
«dataType»
ShadingType
+ maximumCoverRatio: Scale
+ name: CharacterString [0..1]
+ transmittance: Transmittance
«codeList»
BuildingTypeValue
+ Apartment Block
+ Multi Family House
+ Row House
+ Single Family House
+ Terraced House
tags
asDictionary = true
extensibility = any
generateDocumentation = true
generateSchema = true
vocabulary = http://hub.geosmartcity.eu/registry/codelist/BuildingTypeValue/
xsdEncodingRule = iso19136_2007_ShapeChange_1.0_Extensions
«enumeration»
WeatherDataTypeValue
AirTemperature
Humidity
WindSpeed
Cloudiness
GlobalSolarIrradiance
DirectSolarIrradiance
DiffuseSolarIrradiance
TerrestrialEmission
DownwardTerrestrialRadiation
DaylightIlluminance
«dataType»
EnergyPerformanceCertification
+ certificationId: CharacterString [0..1]
+ certificationName: CharacterString
+ certificationRating: CharacterString
«codeList»
OfficialAreaReferenceValue
+ EnergyReferenceArea
+ GrossFloorArea
+ NetFloorArea
tags
asDictionary = true
extensibility = any
generateDocumentation = true
generateSchema = true
vocabulary = http://hub.geosmartcity.eu/registry/codelist/OfficialAreaReferenceValue/
«enumeration»
ElevationReferenceValue
Attributes
+ bottomOfConstruction
+ entrancePoint
+ generalEave
+ generalRoof
+ generalRoofEdge
+ highestEave
+ highestPoint
+ highestRoofEdge
+ lowestEave
+ lowestFloorAboveGround
+ lowestRoofEdge
+ topOfConstruction
+ topThermalBoundary
+ bottomThermalBoundary
«enumeration»
ConstructionWeightValue
VeryLight
Light
Medium
Heavy
«enumeration»
VolumeTypeValue
Attributes
+ NetVolume
+ GrossVolume
+ EnergyReferenceVolume
«Enumeration»
ThermalBoundaryTypeValue
InteriorWall
IntermediaryFloor
SharedWall
OuterWall
GroundSlab
BasementCeiling
AtticFloor
Roof